DISTRICT

MS. ERIN KUHN

410-321-2781

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MR. DAVID CASTLE

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ASSISTANT DISTRICT ENGINEER - TRAFFIC

ASSISTANT DISTRICT ENGINEER - CONSTRUCTION

ASSISTANT DISTRICT ENGINEER - MAINTENANCE

ASSISTANT DISTRICT ENGINEER - UTILITIES

BALTIMORE GAS & ELECTRIC - ELECTRICAL SERVICE

II. INTERSECTION OPERATION

- 1. THE INTERSECTION OPERATES IN A NEMA SIX-PHASE FULLY ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR BOTH THE EASTBOUND AND WESTBOUND MOVEMENTS OF PHILADELPHIA RD. THE EASTBOUND AND WESTBOUND THROUGH MOVEMENTS OF PHILADELPHIA RD. OPERATE CONCURRENTLY. THE NORTHBOUND AND SOUTHBOUND MOVEMENTS OF I-695 NB ON RAMP/GOLDEN RING ENTRANCE OPERATE AS A SPLIT PHASE. AN ALTERNATE PEDESTRIAN PHASE WITH COUNTDOWN PEDESTRIAN SIGNALS AND AUDIBLE/TACTILE PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON THE WEST LEG OF MD 7 AND ACROSS THE I-695 NB ON RAMP.
- 2. A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH VIDEO INTERFACE EQUIPMENT, TELEMETRY CABLE AND ALL NECESSARY EQUIPMENT HOUSED IN A NEMA SIZE "6" BASE-MOUNTED CABINET SHALL REMAIN AT THIS INTERSECTION.

III. APS NOTES

861116

420 LF

TO CROSS MD7:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON WILL ANNOUNCE "WAIT TO CROSS PHILADELPHIA AT 1-695 NORTHBOUND RAMP AND THE CENTER AT GOLDEN RING ENTRANCE."
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.
- TO CROSS I-695 NB RAMP:
 - A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME. THE PUSHBUTTON WILL ANNOUNCE "WAIT TO CROSS I-695 NORTHBOUND RAMP AT PHILADELPHIA. CROSSWALK ANGLES LEFT."
 - B. WHEN WALK PHASE BEGINS. THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADIMISTRATION

CAT CODE 900000 900000	QUANTITY 1 EA 53 SF	DESCRIPTION [UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 5-8 CAMERAS [UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN 1 EA SHIELD ASSEMBLY SIGN GROUND MOUNTED M3-1 "NORTH" (24"X12"), M1-1 "695" (30"X24"), M6-3 "THRU ARROW" (21"X15") 1 EA SHIELD ASSEMBLY SIGN GROUND MOUNTED M4-50 "TO" (24"X12"), M3-3 "SOUTH" (24"X12"), M1-1 "695" (30"X24"), M6-1 "LEFT ARROW" (21" X15") 1 EA M3-4 "WEST" (24"X12"), M1-5 "MD7" (24"X24"), M6-1 "RIGHT ARROW" (21"X15") GROUND MOUNTED 2 EA W11-1 "ADVANCED PEDESTRIAN CROSSING" SIGN (30"X30") AND W16-7p "DIAGONAL ARROW LEFT" SIGN (24"X12") 1 EA R1-2 "YIELD" SIGN (36"X36") [UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN	"X15")
900000	111 SF	1 EA SHIELD ASSEMBLY SIGN (36"X75") POLE MOUNTED M3-2 "EAST" (30"X15"), M1-5 "MD7" (48"X36"), M6-1 "LEFT ARROW" (30"X24") 1 EA M1-5(4) "MD7 WEST/EAST PHILADELPHIA RD" SIGN (78"X36") MAST ARM MOUNTED 1 EA D3-1 "PHILADELPIA RD" STREET SIGN MAST ARM MOUNTED (VAR"X16") 1 EA R3-6 "LEFT THRU ONLY" SIGN (30X36") MAST ARM MOUNTED 2 EA R3-5(L) "LEFT ONLY" SIGN (30"X36") MAST ARM MOUNTED 2 EA R10-3(1) "PUSH BUTTON TO CROSS I-695 RAMP" SIGN (9"X15") POLE MOUNTED	A•D•E•

2 EA R10-3(1) "PUSH BUTTON TO CROSS PHILADELPHIA RD" SIGN (9"X15") POLE MOUNTED

2 EA M1-5(4) (MOD) "I-695 NORTH ARROW RIGHT" SIGN (53.5"X24") MAST ARM MOUNTED 2 EA M1-5(4) (MOD) "I-695 NORTH ARROW LEFT" SIGN (53,5"X24") MAST ARM MOUNTED

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

CAT CODE	DDE QUANTITY			DESCRIPTION
201032	15	CY		CLASS 2 EXCAVATION
203030	3	CY		TEST PIT EXCAVATION
585462	405	LF		REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
585620	600	LF		12 INCH HEAT APPLIED WHITE PERMPREF. THERMOPLASTIC PAVEMENT MARKINGS
585624	105	LF		24 INCH HEAT APPLIED WHITE PERMPREF. THERMOPLASTIC PAVEMENT MARKINGS
585627	57	SF		WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS & SYMBOLS
600000	126	SF		DETECTABLE WARNING SURFACES FOR CURB RAMPS (RED CLAY BRICK PAVERS)
634300	270	LF		STANDARD TYPE A COMBINATION CURB AND GUTTER, 12 INCH GUTTER 8 INCH DEPTH
655105	730	SF	V.	5 INCH CONCRETE SIDEWALK
800000	4	EΑ	•	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION
800000	2	EΑ		ADJUST EXISTING HANDHOLE TO GRADE
800000	195	LF		DISCONNECT, PULL BACK & REROUTE CABLE
800000	4	EΑ		AUDIBLE/TACTILE PEDESTRIAN PUSH BUTTON AND SIGN
800000	1	EΑ		FURNISH & DELIVER 2 WIRE CENTRAL CONTROL UNIT
800000	485	LF		SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - BORED
800000	200	LF		SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - TRENCHED
800000	164	SF		INSTALL OVERHEAD OR GROUND MOUNTED SIGN
800000	3	EΑ		BREAKAWAY PEDESTAL POLE (ANY SIZE)
800000	2	EΑ		TWIN MAST ARM POLE & 50 FOOT / 70 FOOT MAST ARMS ANY "T" DIMENSION
800000	2	EΑ		ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP & LUMINAIRE
800000	6	EΑ		VIDEO DETECTION CAMERA & CABLE UP TO 500 FT
800000	5	EΑ		REMOVE SIGNAL POLE FOUNDATION 12" BELOW GRADE
801104	15	LF		WOOD SIGN SUPPORTS 4 INCH x 4 INCH
801106	80	LF		WOOD SIGN SUPPORTS 4 INCH x 6 INCH
802501	395	LF		NO.6 AWG STRANDED BARE COPPER GROUND WIRE
807202	1	EΑ		METERED SERVICE PEDESTAL EMBEDDED
810010	60	LF		ELECTRICAL CABLE 1-CONDUCTOR, NO.4 AWG THHN/THWN
811001	5	EΑ		FURNISH AND INSTALL ELECTRICAL HANDHOLE
813023	6	SF		RELOCATE GROUND MOUNTED SIGN
860284	46	EΑ		12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860292	1	EΑ		CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	850	LF		ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	940	LF		ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	2010	LF		ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG), TO

C. IF THE CABINET IS TO BE REMOVED SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

OFFICE OF TRAFFIC AND SAFETY

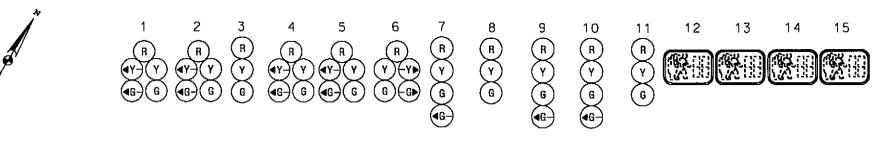
MR. RICHARD DAFF SR. CHIEF, TRAFFIC OPERATIONS 410-787-7630

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7630

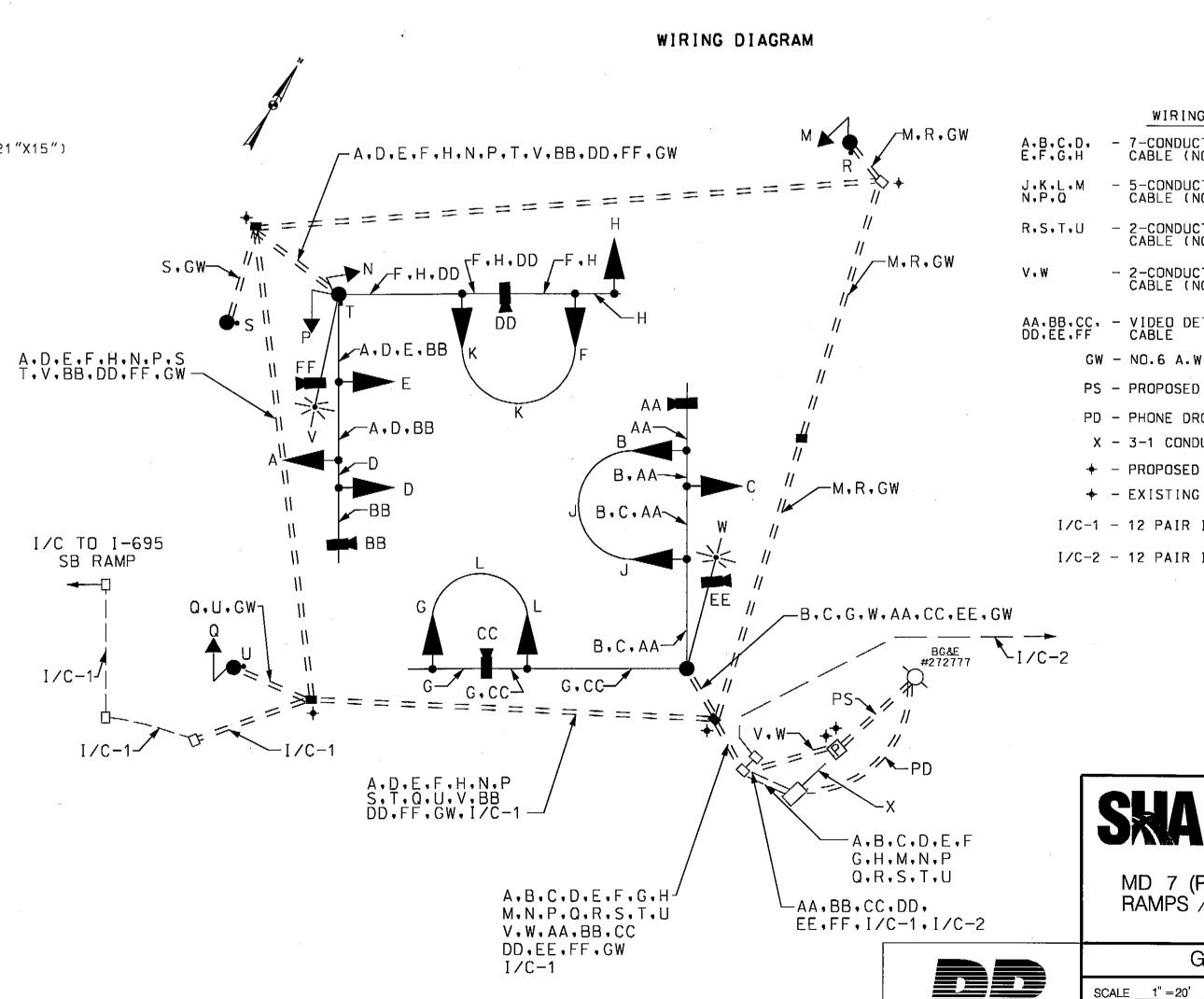
MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS 410-787-7650

MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS 410-787-7670

MS. DARLENE EIDE SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7668



				1		1			1							
PHASE 1 + 5	∢ G-⁄R	∢ G <u>/</u> R	R	⋖ G-⁄R	∢ G-⁄R	R	R	R	R	R	R	ÐW	DW	DW	DW	
1 + 5 CHANGE THE CONTROLLER MAY SKIP TO PHASES 1 + 6 OR 2 + 5 OR 2 + 6													√			
PHASE 1 + 6	∢ G-/G	∢ G-/G	G	R	R	R	R	R	R	R	R	DW	DW	D₩	DW	
1 CHANGE	∢ Y-/G	∢ Y - /G	G	R	R,	R	R	R	R	R	R	DW	DW	DW	DW	
PHASE 2 + 5	R	R	R	∢ G-/G	∢ G-/G	G	R	R	R	R	R	WK	WK	DW	DW	♦ •
5 CHANGE	R	R	R	∢ Y -⁄G	∢ Y -⁄G	G	R	R	R	R	R	WK	WK	DW	DW	$\stackrel{\wedge}{\vdash}$
PHASE 2 + 6	G	G	G	G	G	G	R	R	R	R	R	WK	WK	DW	DW	
PHASE 2+6 PED CLEAR	G	G	G	G	G	G	R	R	R	R	R	FL/DW	FL/DW	DW	DW	<u> </u>
2 + 6 CHANGE	Y	Y	Y	Y	Υ	Υ	R	R	R	R	R	DW	DW	DW	DW	─ ▷
PHASE 3	R	R	R	R	R	R	G-G-	G	R	R	R	DW	DW	DW	DW	Ŷ
3 CHANGE .	R	R	R	R	R	R	Y	Y	R	R	R	DW	DW	DW	DW	
PHASE 4	R	R	R	R	R	R	R	R	G −	G −	G	DW	DW	DW	DW	
4 CHANGE	R	R	R	R	R	R	R	R	Υ	Υ	Y	DW	DW	DW	DW	\bigvee
PHASE 4 ALT	R	R	R	R	R	R	R	R	⋖ G –	G G−	C	DW	DW	WK	WK	P
PHASE 4 PED CLEAR	R	R	R	R	R	R	R	R	G-	G G−	G	DW	DW	FL/DW	FL/DW	
4 ALT CHANGE	R	R	R	R	R	R	R	R	Y	Y	Υ	DW	DW	DW	DW	• ♦
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	+ 4



WIRING KEY

- 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

- 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

- 2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G.)

AA.BB.CC. - VIDEO DETECTION LEAD-IN DD.EE.FF CABLE

GW - NO.6 A.W.G STRANDED BARE COPPER GROUND WIRE

PS - PROPOSED SERVICE

PD - PHONE DROP

X - 3-1 CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G. THHN/THWN)

→ PROPOSED 3/4 IN. X 10 FT. GROUND ROD

+ - EXISTING 3/4 IN. X 10 FT. GROUND ROD

I/C-1 - 12 PAIR INTERCONNECT TO I-695 SB RAMP

I/C-2 - 12 PAIR INTERCONNECT TO FONTANA LANE

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

MD 7 (PHILADELPHIA RD) AND 1-695 O.L. N.B. RAMPS THE CENTER AT GOLDEN RING ENT. ROSEDALE, MARYLAND

SHEET NO. 2 OF 2

GENERAL INFORMATION PLAN

CONTRACT NO. BA1195168 DATE 6 /1 /09 DESIGNED BY K. PERMISOHN COUNTY BALTIMORE DRAWN BY M. WAGNER LOGMILE <u>030000702.63</u> CHECKED BY D. MACLEAN TIMS NO. <u>J639</u> PARSONS BRINCKERHOFF

> TOD NO. _ DRAWING SP-18 OF 39 S NO. 1187-I GI

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